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2 **APPLICATION**
3 *for*
4 **UNITED STATES LETTERS PATENT**
5 *by*
6

7 **NICHOLAS N. NASSIRI**
8
9

10 *on the invention entitled*
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12

13 **SYSTEM AND METHOD OF IDENTITY AND SIGNATURE AND**
14 **DOCUMENT AUTHENTICATION USING A VIDEO CONFERENCE**
15
16

17 **Pages of Specification: 72**
18 **Pages of Drawing: 3**
19

20 TO ALL WHOM IT MAY CONCERN:
21
22

23 BE IT KNOWN THAT I, Nicholas Nassiri, a citizen of the USA,
24 has invented a new and useful method and system of performing
25 identity and signature and document authentication using a
videoconference of which the following is a specification:
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1 **SYSTEM AND METHOD OF IDENTITY AND SIGNATURE AND**
2 **DOCUMENT AUTHENTICATION USING A VIDEO CONFERENCE**

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16 **BACKGROUND OF THE INVENTION**

18 **Field of the Invention**

19 The present invention relates generally to video
20 conferencing and video communications and applications
21 based on the technology thereof and more specifically it
22 relates to an electronic method of identity and signature
23 and document authentication via a "real time" live video
24 conference exchange.

25 ///
26 ///
27 ///

1 **DESCRIPTION OF THE PRIOR ART**

2 It can be appreciated that methods of video conferencing
3 have been in use for years. Typically, there exists a range
4 of video conference systems or video communication systems
5 that utilize a variety of structures, such as telephone,
6 personal computers and mounted cameras to relay live stream
7 video, and a variety of methods to facilitate the live
8 stream conference. The prior art discloses United States
9 Letters of Patent 5,991,276 issued to Yamamoto; United
10 States Letters of Patent 6,124,882 issued to Voois et al;
11 United States Letters of Patent 6,121,998 issued to Voois
12 et al; United States Letters of Patent 6,128,033 issued to
13 Friedel et al; and United States Letters of Patent
14 6,037,970 issued to Kondo.

15 The Yamamoto patent depicts a multipoint videoconference
16 system which delivers video and voice information along
17 with various types of material data to realize a more
18 realistic teleconferencing environment. The system
19 comprises a plurality of videoconference terminals, a
20 videoconference server, and a videoconference
21 administration server. The videoconference administration
22 server controls network connections between the
23 videoconference server and the videoconference terminals.
24 The Yamamoto patent does not depict a method and system of
25 identity and signature and document authentication via a
26 "real time" live stream video conference format.

27 The Vois patent number 6124882 depicts a videophone device
28 that utilizes a programmable processor circuit

1 capable of communicating over a conventional communications
2 channel, such as a POTS line, and of generating video data
3 for display on a television set. The device includes a
4 video source, an interface circuit, including a modem
5 transmitting and receiving video and audio data over the
6 channel; a circuit for storing a program to control the
7 videophone apparatus; and a display driver circuit for
8 generating video data to the display. The Vois patent
9 number 6124882 does not depict a method and system of
10 identity and signature and document authentication via a
"real time" live stream video conference format.

11
12 The Vois patent number 6121998 depicts a programmable
13 video/general-purpose processor capable of readily updating
14 program-related data. The processor includes a first
15 circuit section used to process data for videoconferencing
16 and to detect codes data used for revising software-related
17 data provided from a remote location, and a second circuit
18 section used for executing the executable program data
19 stored in the second memory circuit. A volatile memory
20 circuit is coupled to and accessed by the programmable
21 video/general-purpose processor, and is used for storing
22 the revision data until it is validated. The non-volatile
23 memory circuit is then used by the processor in a
24 subsequent video-related application, such as a
25 videoconferencing application or a web browser application.
26 The Vois patent does not depict a method and system of
27 identity and signature and document authentication via a
"real time" live stream video conference format.

The Friedel patent depicts an audiovisual communications terminal apparatus that is adapted for interconnection to at least one other audiovisual communications terminal apparatus by a communications medium to form an audiovisual teleconferencing network. The audiovisual communications terminal apparatus includes an interface device, producing and transmitting means, and receiving and broadcasting means. The interface device operates to condition input audiovisual signals received from the other audiovisual communications terminal apparatus and to condition output audiovisual signals for processing by the other audiovisual communication terminal apparatus. The receiving and broadcasting means receive the input audiovisual signals from the interface device and broadcast the received input audiovisual signals thereby creating an audiovisual teleconference between two users so that the users can both see and hear each other. The Friedel patent does not depict a method and system of identity and signature and document authentication via a "real time" video conference format.

The Kondo patent depicts a videoconference system that conducts a videoconference among a plurality of communication centers which are connected by a communication line. Each communication center includes: display devices for displaying images from the other communication centers participating in the videoconference; speaker devices for outputting voices from the other communication centers participating in the videoconference; camera devices disposed at positions corresponding to the

1 display devices, for imaging participants in the
2 videoconference; microphone devices disposed at positions
3 corresponding to the display devices, for capturing voices
4 from the participants; and a transmitter/receiver
5 transmitting output signals from the camera devices and
6 output signals from the microphone devices to the other
7 communication centers, and receiving output signals from
8 the camera devices and output signals from the microphone
9 devices of the other communication centers, the
10 transmitter/receiver for supplying the output signals from
11 the camera devices and the output signals from the
12 microphone devices of the other communication centers to
13 the display devices and the speaker devices corresponding
14 to the camera devices and the microphone devices. The Kondo
15 patent does not depict a method and system of identity and
16 signature and document authentication via a "real time"
17 live stream video conference format.

18 The above methods have been widely used in the commercial
19 marketplace in various business practices. For example,
20 found in the marketplace are businesses that utilize live
21 stream video conferencing to facilitate certain
22 communication-based transactions between parties that are
23 geographically remote. The research discloses practices
24 that utilize video conferencing to facilitate transactions
25 such as "remote arraignment" whereby live stream video
26 connects judicial agencies (courts) to penal institutions
27 (where the prisoner resides), thereby enabling the parties
28 to conduct criminal arraignments from remote locations.

Likewise, the research discloses practices that utilize video conferencing to facilitate transactions such as "remote education" whereby educational facilities (the physical classroom) broadcast their lectures to remote locations (one's television set or desktop computer) via live stream video.

The prior art and prevailing business practices clearly illustrate the usefulness and many benefits of systems and methods of videoconference. Great amounts of time and money are saved by uniting geographically remote individuals. Businesses, governmental agencies, consumers, students, and the like benefit from being able to bridge the distance between geographically remote parties. While the prior art discloses very useful means and benefits, existing methods, while joining the remote parties during the live videoconference, fail to facilitate particular transactions during the videoconference: signature authentication, identity authentication or document creation and authentication.

The method of the present invention functions to facilitate any of the foregoing requests singularly, or all of the requests simultaneously. That is: the present invention may capture a signature, a photograph, biometric data or other forms of electronic data and create an authenticated electronic document using said data input. To put into context: parties that are not familiar with one another may have a need to authenticate the identity of the remote party with whom they videoconference with. For example, two

1 geographically dispersed parties wish to execute a single
2 document to conclude a transaction: such as the sale and
3 subsequent purchase of property. The commercial transaction
4 of the transfer of the real estate property is dependent on
5 verifying the identity of a party to the videoconference,
6 and obtaining the respective signatures of the parties.
7 Methods of signature/identity authentication may include,
8 but are not limited to, electronic signature capture,
9 biometric data capture, photograph capture, or electronic
10 data capture during a live videoconference exchange. The
11 commercial real estate transaction involves the
12 geographically remote parties each individually,
13 nonetheless simultaneously, signing a single electronic
14 document necessary to conclude the transaction, such as a
15 promissory note. Upon the respective electronic data input
16 from the geographically remote parties, such respective
17 electronic data input from each party is verified, and
18 fused in a single, authenticated electronic document.

19 The prior art fails to disclose any videoconference method
20 whereby signature authentication or identity authentication
21 may be conducted during the videoconference. The prior art
22 fails to disclose any videoconference method whereby
23 electronic data may be captured and input during the video
24 conference. The prior art fails to disclose any
25 videoconference method whereby the respective electronic
26 data input from any party is verified, and fused in a
27 single, authenticated electronic document.

28 The main problem with conventional real time video

1 conferencing methods is that none of the existing systems
2 or applications incorporate a system, method or process of
3 electronic identity authentication of the geographically
4 remote individuals to the videoconference.

5 Another main problem with conventional real time video
6 conferencing methods is that none of the existing systems
7 or applications incorporate a system, method or process of
8 electronic signature authentication of the geographically
9 remote individuals to the videoconference.

10 Another problem with conventional real time video
11 conferencing methods is that none of the existing systems
12 or applications incorporate a system, method or process of
13 electronic document authentication as part of the
14 transaction by the geographically remote individuals to the
15 videoconference.

16 Another problem with conventional real time video
17 conferencing methods is that none of the existing systems
18 or applications incorporate a system, method or process of
19 electronic authentication of one's identity, signature and
20 the documents simultaneously of the geographically remote
21 individuals to the videoconference.

22 Another problem with conventional real time video
23 conferencing methods is that none of the existing systems
24 or applications incorporate a system, method or process of
25 electronic authentication of one's identity, signature or
26 documents utilizing biometric data that is conveyed during
27 the video conference.

1 While the prior art devices and methods may be suitable for
2 the particular purpose to which they address, they are not
3 suitable for real time, live stream electronic
4 authentication of an identity, a signature, or real time
5 live stream electronic document creation and
6 authentication; whether the said identity, signature, or
7 electronic document is authenticated individually or in
conjunction with at least one other verification request.
8

9 In these respects, the method of electronic identity and
10 signature and document authentication via a real time, live
11 stream videoconference exchange, according to the present
12 invention, substantially departs from the conventional
13 concepts and designs of the prior art, and in so doing
14 provides an apparatus primarily developed for the purpose
15 of an electronic method of identity and signature and
16 document creation and authentication via a real time, live
video conference exchange.

1 **SUMMARY OF THE INVENTION**

2
3 The general purpose of the present invention, which will be
4 described subsequently in greater detail, is to provide a
5 new method of real time video conference for electronic
6 identity and signature authentication, and for electronic
7 document creation and authentication, that has the many
8 advantages mentioned heretofore and many novel features
9 that result in a new videoconference method which is not
10 anticipated, rendered obvious, suggested, or even implied
11 by any of the prior art video conferencing, either alone or
in any combination thereof.

12
13 The present invention incorporates a variety of
14 applications and technology that in conjunction can be used
15 to authenticate a personal identity, a signature, or an
16 electronic document, either singularly or simultaneously,
17 during a real time, live stream videoconference. The nature
18 of the transaction is dependent on the needs of the parties
19 to the videoconference. For example, the parties may need
20 identity authentication, or signature authentication, or
21 electronic document creation and authentication, or a
combination of all three.

22
23 Likewise, the form and type of authentication will vary
24 depending on the needs or requests of the parties. The
25 present invention is capable of a broad base of
26 applications that result in authentication. The method of
27 the present invention utilizes signature data, biometric
28 data, photographs, electronic data input and electronic

1 notarization. Any particular form of authentication may be
2 used singularly or in conjunction with another form of
3 authentication. The purpose of the electronic data capture
4 is to create an authenticated document, such as an executed
5 contract, a passport or drivers license, and the like. The
6 present invention is capable of authenticating any type of
7 document and the foregoing examples are not regarded as
8 limiting. Likewise, it should be understood that the
9 foregoing examples of authentication are all conducted
10 between geographically remote parties during a real time,
11 live stream videoconference.

12 By way of example, a standard real estate transaction is
13 detailed. Such a transaction typically requires that
14 geographically remote parties physically meet to confirm
15 the identity of one another or that they travel to a notary
16 public to have their identities authenticated. Such a
17 process is time consuming, expensive and inconvenient.
18 Using the present invention, a transfer of title to
19 property would unite the buyer in New Jersey, the seller in
20 California, and the e the notary public in New York in a
21 three way real time, live stream video conference. The
22 geographically remote parties are each able to view one
23 another via a video and audio stream. The parties may each
24 input electronic data, in this instance, a signature, into
25 a single electronic document using the means of the present
26 invention. Upon input of the respective electronic data
27 from the dispersed parties, the present invention serves to
28 manage the electronic data input and generate the desired

1 electronic document. By way of the foregoing example, the
2 result would be a single, authenticated electronic document
3 that is executed by the dispersed parties. A time and date
4 stamp is affixed to the electronic document so that no
5 changes may be made to the encrypted document. The single,
6 finalized notarized electronic document is then issued to
7 the authorized receiving party, such as the registrars
8 office.

9 In another embodiment, the present inventive method enjoins
10 a customer with a remote governmental agency in a real
11 time, live stream videoconference. In this embodiment, the
12 present invention inputs electronic data from the customer
13 for the purpose of creating an authenticated government
14 issued document, such as a drivers license or a passport.
15 Per the foregoing example, the electronic data input may
16 comprise various forms, including, but not limited to, an
17 electronic signature, a photographic image, biometric data,
18 such as a thumbprint, or electronic data in the form of a
19 code or a password. Using the inventive device, said
20 governmental agency in turn verifies the electronic data
21 input as being authentic. Upon authentication of the input
22 information, an electronic document is created that
23 encapsulates the input electronic data with the document
24 requested, such as a passport or social security card.

25 In another embodiment of the present invention, a customer
26 accesses the present invention by way of the world wide web
27 (WWW). In this embodiment, the customer initiates a real
28 time, live stream videoconference with a remote site from a

1 location of the customer's choice, such as the home or the
2 office. Per the foregoing methods, the customer will be
3 prompted to input varied forms of electronic data,
4 including, but not limited to, an electronic signature, a
5 photographic image, biometric data, such as a thumbprint,
6 or electronic data in the form of a code or a password. The
7 remote site verifies the input data and in turn creates an
8 authenticated document that is issued to the authorized
9 party, such as a government agency, a medical practitioner,
a lawyer, and the like.

10
11 The WWW embodiment is put into context by way of the
12 following example. Assume that a customer requires an
13 authenticated student identification card. The customer
14 need not travel to the university for the creation of such
15 a card but may input the required information from the
16 convenience of home. The customer accesses the present
17 invention on the WWW using a configured graphic user
18 interface (GUI). Utilizing the GUI, the customer may input
19 electronic data using a home personal computer. The
20 customer will be prompted to input varied forms of
21 electronic data, including, but not limited to, an
22 electronic signature, including a graphical hand written
23 signature, a photographic image, biometric data, such as a
24 thumbprint, or electronic data in the form of a code or a
25 password. The electronic data input is verified by the
26 present inventive method and amalgamated into an
authenticated student card which is issued to the
authorized party, presumably the student in this instance.

27
28 In any of the embodiments of the present invention,

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1 irrespective of the type of service request, whether it be
2 an executed, notarized electronic document or an
3 authenticated identification card, electronic data input by
4 the parties participating in the videoconference may be
5 input singularly or simultaneously. Likewise, input data
6 may comprise various forms of electronic data in a single
7 session, such as: an electronic document, a digital
8 certificate, an electronic notary seal, biometric data, a
9 password or a code, a photographic image and other such
10 data input. Any data input from any party to the
11 videoconference is transmitted via a real time, live stream
12 during the course of the videoconference. Any data input
13 from any party to the videoconference that is transmitted
14 during the course of the videoconference, may be
15 transmitted either singularly or simultaneously by the
16 parties. The input data is subsequently fused to an
17 electronic document and issued to the authorized party.

18 The above referenced examples illustrate that the present
19 invention is comprised of various technologies that work in
20 conjunction with one another or individually to comprise
21 the method of electronically authenticating one's identity,
22 a signature or a document in real time, live stream video
23 format. To these ends, the present invention is comprised
24 of the following components:

- 25 (i) a multi-point and multi-media video conference system
26 (including fixed and portable structures);
27 (ii) an electronic signature capture device;

- (iii) the means to authenticate the electronic signature input by way of the electronic signature capture device;
 - (iv) a device to create electronic documents;
 - (v) the means to authenticate electronic documents;
 - (vi) an electronic document repository;
 - (vii) a device to create a digital certificate;
 - (viii) the means to authenticate a digital certificate;
 - (ix) a device to create an electronic time and date stamp;
 - (x) the means to authenticate an electronic time and date stamp;
 - (xi) a device to create an electronic notary seal (detailed in USPTO patent-pending application, identified as Customer 021907);
 - (xii) the means to authenticate an electronic notary seal (detailed in USPTO patent-pending application, identified as Customer 021907);
 - (xiii) a device or devices to capture biometric data, such as a fingerprint, photographic image and the like;
 - (xiv) the means to authenticate biometric data, such as a fingerprint, photographic image and the like;
 - (xv) a device to fuse the electronic data input with an electronic document;
 - (xvi) the means to authenticate an electronic document that has electronic data fused to it; and
 - (xvii) such other applications and or devices which are necessary to facilitate the function of the aforementioned components whether individually or in conjunction with one another.

1 The primary object of the present invention is to provide
2 an electronic method of personal identity, signature, and
3 electronic document authentication using a real time, live
4 stream videoconference platform that overcomes the
5 shortcomings of the prior art devices.
6

7 Another object of the present invention is to provide a
8 method of identity, signature, and electronic document
9 authentication using a real time, live stream
10 videoconference platform that will facilitate electronic
11 commerce: particularly transactions that involve sensitive
12 data or high value transactions.

13 Another object of the present invention is to provide a
14 method of identity, signature, and electronic document
15 authentication using a real time, live stream
16 videoconference platform that integrates real time
17 electronic data input to facilitate electronic commerce
18 transactions wherein such transactions require the input of
19 personal data, such as an electronic signature or scanned
20 fingerprint.

21 Another object of the present invention is to provide a
22 method of identity, signature, and electronic document
23 authentication using a real time, live stream
24 videoconference platform that can electronically notarize
25 electronic documents.

26 Another object of the present invention is to provide a
27 method of identity, signature, and electronic document

1 authentication using a real time, live stream
2 videoconference platform that authenticates the identity of
3 a party to a transaction via a variety of methods,
4 including, but not limited to, electronically transmitted
5 biometric data, personal identification papers, in digital
6 and hard-copy format, codes, encryption keys, passwords or
7 other preordained formulas.

8 Another object of the present invention is to provide a
9 method of identity, signature, and electronic document
10 authentication using a real time, live stream
11 videoconference platform that allows a plurality of
12 individuals to each individually, but simultaneously,
13 witness the respective individual input electronic data
14 into an electronic document, such as an electronic
15 signature or an electronic fingerprint.

16 Another object of the present invention is to provide a
17 method of identity, signature, and electronic document
18 authentication that will allow an individual, via an
19 interface with the present invention, direct communication
20 with government agencies that require authentication of
21 either the individual's identity, signature, or documents
22 prior to issuing a government issued document or benefits.

23 Another object of the present invention is to provide a
24 method of identity, signature, and electronic document
25 authentication using a real time, live stream
26 videoconference platform that fuses the electronic data
27 input by the parties to the electronic documents created

1 through the method of the present invention.

2
3 Another object of the present invention is to provide a
4 method of identity, signature, and electronic document
5 authentication using a real time, live stream
6 videoconference platform that allows an individual, via an
7 interface with the present invention, direct communication
8 with government and other regulatory agencies to create
9 hard copy identity-based cards or documents that are
encoded with various electronic and biometric information.

10
11 There has thus been outlined, rather broadly, the more
12 important features and objectives of the invention in order
13 that the detailed description thereof may be better
understood, and in order that the present contribution to
the art may be better appreciated. There are additional
14 features of the invention that will be described
15 hereinafter.

16
17 Other objects and advantages of the present invention will
18 become obvious to the reader and it is intended that these
19 objects and advantages are within the scope of the present
20 invention. In this respect, before explaining at least one
21 embodiment of the invention in detail, it is to be
22 understood that the invention is not limited in its
23 application to the details of construction and to the
24 arrangements of the components set forth in the following
25 description or illustrated in the drawings. The invention
26 is capable of other embodiments and of being practiced and
27 carried out in various ways. Also, it is to be understood

1 that the phraseology and terminology employed herein are
2 for the purpose of the description and should not be
3 regarded as limiting.

4 To the accomplishment of the above and related objects,
5 this invention may be embodied in the form illustrated in
6 the accompanying drawings, attention being called to the
7 fact, however, that the drawings are illustrative only, and
8 that changes may be made in the specific construction
9 illustrated.

1 **BRIEF DESCRIPTION OF THE DRAWINGS**

2
3 Various other objects, features and attendant advantages of
4 the present invention will become fully appreciated as the
5 same becomes better understood when considered in
6 conjunction with the accompanying drawings, in which like
7 reference characters designate the same or similar parts
8 throughout the several views, and wherein:

9 FIG.1 Figure 1 depicts the general routing process
10 of a request for identity or signature authentication. The
11 distinction between the "public" and "private" domain is
12 whether the request involves a government/ regulatory
13 entity. The former designation being deemed a "public"
14 process whereby the signature or identity authentication is
15 for the purpose of authenticating a government or a
16 regulatory based identity document. The latter designation
17 being deemed a "private" process whereby the signature or
18 identity authentication is for the purpose of a commercial
19 transaction.

20 FIG. 2 Figure 2 depicts the steps and/or methods
21 utilized to authenticate an identity or signature.

22 FIG.3 The present invention processes' are somewhat co-
23 dependent insofar that the process of either identity and
24 signature verification inherently result in an
25 authenticated document. Figure 3 depicts the steps and/or
26 methods utilized to create, secure and store an electronic
27 document.

1 The drawings are intended to provide an over-view of the
2 processes of the present invention. There exist various
3 technological applications by which the objectives of the
4 present invention can be realized. The various means or
5 methods by which authentication shall be established are
6 specifically set forth in the embodiment of the invention
7 as put forth below.
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1 **DESCRIPTION OF THE PREFERRED EMBODIMENT**

2
3 The present invention recognizes that there is much more to
4 live stream videoconference collaboration than just the
5 video and audio experience. The present invention offers
6 solutions that blend video and audio communication with
7 various forms of electronic data input with a real time,
8 live stream videoconference. Specifically, the present
9 invention is a process, method and system that uses a
10 videoconference system to input and transmit electronic
11 data for the purpose of authenticating an identity, a
12 signature or to create an authenticated electronic document
13 using a real-time, live-stream videoconference medium.

14
15 The present invention is useful and efficient because the
16 inventive device is open-ended in application. The present
17 invention can be applied, but is not limited to, the
18 following transactions: any transaction that requires
19 authentication of an identity; any transaction that
20 requires authentication of a signature; or any transaction
21 that requires authentication of an electronic document. The
22 method of the present invention is best suited where the
23 parties to the transaction are geographically remote, and
24 can be utilized for any e-commerce based transaction that
25 requires authentication of either an identity, a signature,
26 or a document; or any transaction where the parties require
27 authentication of either an identity, a signature to issue
28 an identity-based document, such as a passport or a drivers
 license. The creation and authentication of electronic
 documents or identity-based documents occurs during the

1 course of the real time, live stream video conference using
2 electronic data input by geographically remote parties to
3 the transaction.

4
5 The present invention is premised on the concept of an
6 increasingly borderless world, insofar as technology and
7 the Internet have ever more united remote parties in a host
8 of transactions that once would have necessitated an
9 actual, physical face-to-face meeting. By way of example,
10 one may execute electronic documents online on the Internet
11 using forms of electronic signatures, thereby eliminating
12 the need for the signatories to coordinate a face-to-face
13 meeting. Likewise, one may scan personal biometric data,
14 such as a thumbprint, and submit such data via an
15 electronic upload to a remote database, thereby eliminating
16 the need to manually fingerprint oneself and mail such hard
17 copy information. Remarkably, with ease we now
18 videoconference using desktop computers and telephonic
19 devices that allow geographically remote parties to
simultaneously view and hear one another via the Internet.

20 All of these technologies function to eliminate the need to
21 arrange an actual physical meeting to facilitate a host of
22 transactions. The present invention seeks to coordinate
23 such borderless processes for a method and system of remote
24 party collaboration not rendered by the prior art using a
25 real time, live stream videoconference to enjoin the
26 parties. In the preferred embodiment of the present
27 invention, a customer accesses a remote facility to
process a verification request of the customer's

1 identity or the customer's signature, with the purpose of
2 the verification to create an authenticated electronic
3 document.

4
5 The remote facility is a physical location with the
6 physical infrastructure and means necessary for the present
7 invention to function, referred to herein as the "Video
8 Verification Service Center" (VVSC). The VVSC is a place of
9 business that allows geographically remote parties to
10 conduct transactions by way of a videoconference that
11 functions to transmit varied electronic data from
12 participants to the videoconference, such as an electronic
13 signature, a photographic image, a fingerprint, or other
such electronic data in the course of a videoconference.

14
15 Secondly, the VVSC functions to create electronic documents
16 using the input electronic data, such as a graphical, hand
17 written signature, an electronic signature using a digital
18 certificate, a fingerprint or a photograph during the
19 course of a videoconference. The end result being that the
20 participant's biometric information and personal
21 information are fused to an authenticated document. An
22 authenticated document may comprise an executed deed of
23 trust whereby the parties electronic signatures are affixed
24 to the electronic document as a means of authentication, or
25 a drivers license or a passport, whereby the parties
26 electronic signatures and other information such as a
thumbprint and photographic image are affixed to the
electronic document as a means of authentication.

27 ///

28 ///

1 **APPLICATIONS OF THE PRESENT INVENTION**

2 **I. Identity, Signature, and Document Authentication Using a**
3 **VVSC**

4
5 To put the system and method of the present invention into
6 context of a specific transaction: two parties that are
7 geographically remote must each individually sign a single
8 document and have each of their respective signatures
9 notarized by a notary public. Each party goes to an
10 independent VVSC that is conveniently located in proximity
11 with their physical location. The VVSC initiates a
12 videoconference with all of the parties to the transaction,
13 including a notary public. The videoconference comprises
14 screens or monitors at each location whereby the parties
15 can input and receive audio, visual and electronic data
16 simultaneously, albeit independently at each location.

17
18 Upon initiation of the videoconference, VVSC downloads the
19 electronic document to a central host computer that is to
20 be signed by the parties and that is to be notarized
21 by the notary public. The electronic document to be
22 downloaded may be provided in a portable format, such as a
23 diskette or compact disc and is provided by one of the
24 parties to the transaction. Alternatively, the electronic
25 document may be downloaded from a repository of electronic
26 documents maintained by the present invention.

27
28 Each VVSC has access to the single host computer where the
29 electronic document has been downloaded. The downloaded
30 electronic document is displayed on a screen or monitor

for the respective parties to see, each party viewing the same electronic document. Likewise, the screen or monitor comprises split images that are viewed simultaneously: one of the remote party, one of the electronic document to be signed, one of the electronic data being input and other such multiple imaging as necessary.

Each party executes the electronic document by inputting an electronic signature that is affixed to the electronic document. Electronic signature input may comprise several methods, including, but not limited to, a signature capture device, by biometrics, by a digital certificate, or by a password or code. In the preferred embodiment, each party affixes a graphical, hand written signature using a signature capture device. The present invention comprises the means to affix the graphical, hand written signature to the electronic document. In another embodiment, the electronic signature may be in the form of a digital certificate or other form of source code that is input by the parties to the transaction.

The present invention further comprises the means whereby as each party electronically signs the electronic document, the electronic data being input is displayed on the screen or the monitor. Each party to the videoconference is thereby viewing a single screen with dual images: the other parties, the electronic document, and the electronic signature as it is being captured. In the preferred embodiment the other party thus witnesses the other party signing the electronic document in one image, simultaneously sees the ensuing signature as a separate

1 dual image and the electronic document as a separate dual
2 image.

3
4 Upon affixation of each electronic signature to the single
5 electronic document, the screen or monitor will depict the
6 signed electronic document. In the preferred embodiment,
7 the electronic data may be affixed to the electronic
8 document as a visual representation. Alternatively, the
9 electronic data may be affixed to the electronic document
in the form of encrypted source code.

10
11 Should other electronic data be required, such as a
12 photographic image, a thumbprint, or a code, it will be
13 entered in subsequent fashion and displayed on the screen
or monitor. By way of example, in addition to affixing an
14 electronic signature to the electronic document, the
15 parties may request further authentication information such
16 as a drivers license number, or a thumbprint. As such other
17 authentication data is entered, the respective information
18 is displayed on the screen or monitor as a separate image,
19 and is affixed to the electronic document where indicated.
20 In the preferred embodiment, the electronic data may be
21 affixed to the electronic document as a visual
representation. Alternatively, the electronic data may be
22 affixed to the electronic document in the form of encrypted
23 source code.

24
25 Should notarization be required a notary public
26 authenticates the document by verifying the identity of the
27 signing parties and by affixing an electronic notary seal.

1 The notary public may be an employee who is physically
2 located at the VVSC or may be a remote party enjoined by
3 the videoconference. Electronic notarization parallels the
4 customary legal form of notarization. The notary public
5 shall require that the signatories provide such
6 authentication information as required by law, typically a
7 government issued photo identification card and a biometric
8 submission, such as a signature or a thumbprint. VVSC
9 employee notary public will have the means to verify hard
10 copy personal identification, such as a drivers license
11 information and to input said information electronically in
12 the form of a source code. Likewise, VVSC employee notary
13 public will have the means to verify the electronic
14 signature of the party and to input said information
15 electronically in the form of a source code. Per the
16 methodology above, the input information is displayed on
17 the screen or monitor as a separate dual image.

18 Upon input of the personal verification information, VVSC
19 notary public affixes an electronic notary seal to the
20 electronic document. In the preferred embodiment of the
21 present invention, the electronic notary seal is in the
22 form of a graphical representation of the notary public's
23 seal. The graphical representation is affixed to the
24 electronic document as a visual image. Alternatively, the
25 notary seal may be affixed to the document in the form of a
26 source code. Any changes to the electronic document will
27 invalidate the notary public's seal.

28 Upon affixing all of the required authentication

1 information, including, but not limited to, an electronic
2 signature, a photographic image, biometric information,
3 source code, an electronic notary seal, a time and date
4 stamp is applied and the electronic document is encrypted.

5 The signed, notarized electronic document is disseminated
6 to the requesting party or parties. If the parties so
7 desire, the VVSC shall archive a copy of the electronic
8 document for future reference.
9

10 In another embodiment of the invention, the parties to the
11 transaction may request that a VVSC representative travel
12 to a location of their choice, such as a home or an office.
13 The VVSC representative is equipped with the necessary
14 hardware and the means to facilitate transactions, as
15 depicted above. The VVSC representative initiates a
16 videoconference with the respective parties and with the
17 VVSC itself. The above identified processes are adhered to.
18 The traveling VVSC representative is useful in situations
19 where the parties are unable to travel, such as the infirm
20 or elderly, or in corporate environments that entail
21 several parties to a transaction. Per the method of the
22 preferred embodiment, the traveling VVSC representative may
23 enjoin as many parties to the videoconference as necessary,
24 including a notary public. Alternatively, the traveling
25 VVSC representative may be a notary public.

26 As the foregoing example clearly illustrates, the present
27 invention has the potential to facilitate transactions
28 where the parties are in different cities, states or even

countries. The present invention is open-ended in application and could be used in any e-commerce transaction that requires some form of identity or signature authentication. An individual in New York may purchase a home in California or an automobile overseas. The present invention redresses a significant hurdle to conducting e-commerce, namely, the problem of identity fraud. VVSC authentication not only enables the parties to communicate via a real-time, live stream feed, it allows them to remotely conclude the transaction at hand by accessing a single electronic document simultaneously and inputting their respective personal information.

II. Identity Card Creation Authentication Using a VVSC

In another embodiment of the present invention, the inventive device functions to create personal-identity cards for regulatory agencies, educational institutions, or the private sector. This embodiment functions per the methodology of the first embodiment but with a different objective. As opposed to facilitating e-commerce transactions, the inventive device is used to verify identity and issue authoritative documents. By way of example, a government agency may require authoritative authentication to issue a state sponsored identification card, such as a passport, a social security number or a drivers license.

The customer requiring an identity-based document goes to an independent VVSC that is conveniently located in proximity with their physical location. The VVSC initiates

1 a videoconference with all of the parties to the
2 transaction: the customer and the respective government
3 agency. Per the preferred embodiment, the videoconference
4 comprises screens or monitors at each location whereby the
5 parties can input and receive audio, visual and electronic
6 data simultaneously, albeit independently at each location.

7 Upon initiation of the videoconference, VVSC downloads the
8 specific electronic document from the electronic document
9 to a central host computer that is to become a particular
10 identity-based document. The downloaded electronic document
11 is displayed on a screen or monitor for the respective
12 parties to see, each party viewing the same electronic
13 document. Likewise, the screen or monitor comprises split
14 images that are viewed simultaneously: one of the remote
15 party, one of the identity-based electronic document to be
16 created, one of the electronic data being input and other
17 such multiple imaging as necessary.

18 The VVSC shall prompt the customer to provide such personal
19 information as mandated by the requesting agency. Personal
20 information may include, but is not limited to, biometric
21 information, data entry of personal statistics, such as
22 height, weight and birth date, an electronic signature and
23 the like. The input of said personal information may
24 comprise various forms, including, but not limited to,
25 electronic signature input using a signature capture
26 device, by biometrics, by a digital certificate, or by a
27 password or code. In the preferred embodiment, the customer
28 affixes a graphical, hand written signature using a

1 signature capture device to the identity-based electronic
2 document.

3
4 Per the method of the preferred embodiment, the present
5 invention comprises the means whereby as the customer
6 electronically signs the electronic document, the
7 electronic data being input is displayed on the screen or
8 the monitor of the requesting agency. The requesting agency
9 to the videoconference is thereby viewing a single screen
10 with dual images: the customer, the identity-based
11 electronic document, and the electronic signature as it is
12 being captured. Upon affixation of each electronic
13 signature to the identity-based electronic document, the
14 screen or monitor will depict the signed identity-based
15 electronic document. In the preferred embodiment, the
16 electronic data may be affixed to the electronic document
17 as a visual representation. Alternatively, the electronic
18 data may be affixed to the electronic document in the form
19 of encrypted source code.

20 Should other electronic data be required, such as a
21 photographic image, a thumbprint, or a code, it will be
22 entered in subsequent fashion and displayed on the screen
23 or monitor. By way of example, in addition to affixing an
24 electronic signature to the electronic document, the
25 requesting agency may request further authentication
26 information such as a drivers license number, or a
27 thumbprint. As such other authentication data is entered,
28 the respective information is displayed on the screen or
 monitor as a separate image, and is affixed to the

1 electronic document where indicated. In the preferred
2 embodiment, the electronic data may be affixed to the
3 electronic document as a visual representation.
4 Alternatively, the electronic data may be affixed to the
5 electronic document in the form of encrypted source code.

6 As the foregoing example clearly illustrates, the present
7 invention has the potential to facilitate transactions
8 where the parties are in different cities, states or even
9 countries. An American traveler who loses a passport in
10 India may find A VVSC, videoconference with the issuing
11 authority, and have a new passport electronically created
12 and issued without the wait, expense or inconvenience of
13 traditional channels.

14 **III. Identity, Signature, and Document Authentication Using**
15 **a Local Computer System and the World-Wide-Web**

17 In yet another embodiment of the present invention, the
18 parties to the transaction utilize the inventive device
19 independent of the VVSC and independent of a traveling VVSC
20 representative. In this embodiment of the present
21 invention, the parties to the transaction initiate a
22 videoconference via a website that is a function of the
23 VVSC. The web-based VVSC application has a two-fold
24 function: it allows parties to conduct private transactions
25 using a videoconference broadcast via the WWW
26 (webconference), secondly, and it allows registered users
27 to submit electronic data to the VVSC for retrieval and/or
dissemination to other parties.

1 As a priori, to use the present invention from a location
2 independent from a VVSC and independent of a traveling VVSC
3 representative., i.e. the WWW, the customer first must
4 register with the VVSC at its physical location.
5 Registration comprises the VVSC obtaining and verifying
6 personal information from the customer using a variety of
7 data, such as electronic data, government issued personal
8 identity documents, biometric data, such as an electronic
9 signature, a thumbprint and the like, a digital certificate
10 or other such data as may be available. Upon registration,
11 VVSC issues the customer personal identification documents
12 from VVSC, including, but not limited to, a digital
13 certificate, a smart card, a password or a code. VVSC may
14 keep a record of customer's biometric information for
future use, should customer elect to do so.

15 To initiate a transaction independent of the VVSC, a
16 customer wishing signature or identity verification or
17 electronic document creation utilizes the present invention
18 via a local computer system to interface with the VVSC
19 website located on the World Wide Web (WWW). The customer
20 accesses the website via the local computer system and logs
21 in using the password or code as provided by VVSC in the
22 registration process. As per the methodology depicted
23 above, a videoconference is initiated by the VVSC between
24 the parties using a real time, live stream webconference.
25 All parties to the transaction must be registered with the
VVSC.

27 An authentication transaction request using the VVSC

1 website necessitates that the customer use a VVSC graphic
2 user interface (GUI) which runs from the local computer
3 system. The GUI comprises the means for the browser of
4 customer local computer system to display multiple images
5 simultaneously on the monitor of said customer local
6 computer system per the methodology of the preferred
7 embodiment. Said multiple images further comprise: the
8 remote parties to the transaction, the electronic data that
9 is to be input by the parties, and the electronic document
10 that is to be created or authenticated. Not every
11 transaction will comprise every image, the images displayed
are dependent on the transaction request.

12
13 The webconference method of the inventive device will be
14 most useful in facilitating private e-commerce transactions
15 wherein the parties to the transaction need to ascertain
16 the identity and actual signature of the parties to the
17 transaction. In this aspect, geographically remote
18 individuals may conduct high value or sensitive
19 transactions that necessitate authentication of one's
20 signature to the agreement using the inventive device to
21 webconference with one another, and using the inventive
22 device to exchange electronic data, such as an electronic
23 signature, a photograph, a fingerprint, or an electronic
file during the webconference.

24 Upon initiation of a webconference, the parties to the
25 transaction may opt to upload an electronic document from
26 the local computer system to the VVSC host computer server
27 for electronic data input. Alternatively, the parties may
28 elect to download an electronic document from the

1 electronic document repository maintained by the present
2 invention. The electronic document repository comprises a
3 library of electronic documents designed to facilitate e-
4 commerce, including, but not limited to, deeds of trust,
5 mortgages, promissory notes, affidavits, assignments and so
6 on. Upon either uploading a document, or selecting a
7 document for download, VVSC will structure the transaction
request and manage the transaction cycle.

8

9 Per the methodology of the preferred embodiment, the
10 electronic document to be executed is depicted along with
11 an electronic image of the electronic signature being
12 affixed to the document as a graphical, hand written
13 representation or as form of source code, and the actual
14 party executing the electronic signature. Said images are
15 displayed on the browser of the local computer system in
16 the manner of a screen or monitor hosted at an independent
VVSC.

17

18 Upon affixation of each electronic signature to the
19 electronic document, the browser of the local computer
20 system depicts the signed electronic document. In the
21 preferred embodiment, the electronic data may be affixed to
22 the electronic document as a visual representation of a
23 graphical hand-written signature. Alternatively, the
24 electronic data may be affixed to the electronic document
in the form of encrypted source code. Should other
25 electronic data be required, such as a photographic image,
26 a thumbprint, or a code, it will be entered in subsequent
27 fashion and displayed on the browser of the local computer

1 system. By way of example, in addition to affixing an
2 electronic signature to the electronic document, the
3 parties may request further authentication information such
4 as a drivers license number, a thumbprint, or a
5 photographic image. As such other authentication data is
6 entered, the respective information is displayed on the
7 browser of the local computer system as a separate image,
8 and is affixed to the electronic document where indicated.
9 In the preferred embodiment, the electronic data may be
10 affixed to the electronic document as a graphic, visual
11 representation. Alternatively, the electronic data may be
12 affixed to the electronic document in the form of
13 encrypted source code.

14 Per the method of the preferred embodiment, the
15 webconference is capable of providing electronic
16 notarization services to the parties. The notary public may
17 be an employee who is physically located at the VVSC or may
18 be a remote party enjoined by the webconference. Electronic
19 notarization parallels the customary legal form of
20 notarization. The notary public shall require that the
21 signatories provide such authentication information as
22 required by law, typically a government issued photo
23 identification card and a biometric submission, such as a
24 signature or a thumbprint. VVSC employee notary public will
25 have the means to verify hard copy personal identification,
26 such as a drivers license information and to input said
27 information electronically in the form of a source code.
28 Likewise, VVSC employee notary public will have the means
to verify the electronic signature of the party and to
input said information electronically in the form of a

1 source code. Per the methodology above, the input
2 information is displayed on the browser of the local
3 computer system as a separate dual image.

4 Upon input of the personal verification information, VVSC
5 notary public affixes an electronic notary seal to the
6 electronic document. Per the preferred embodiment of the
7 present invention, the electronic notary seal is in the
8 form of a graphical representation of the notary public's
9 seal. The graphical representation is affixed to the
10 electronic document as a visual image. Alternatively, the
11 notary seal may be affixed to the document in the form of a
12 source code. Any changes to the electronic document will
13 invalidate the notary public's seal.

14 Upon affixing the required authentication information,
15 including, but not limited to, an electronic signature, a
16 photographic image, biometric information, source code, an
17 electronic notary seal, the customer uploads the electronic
18 document to the VVSC web server from the local computer
19 system. The VVSC fuses the respective electronic data input
20 from the remote parties into a single, authenticated
21 electronic document. The single authenticated document is
22 then assigned a time and date stamp and a password. No
23 changes may be made to the electronic document without
24 detection. The password is disseminated to those parties
25 authorized to retrieve a copy of the authenticated document
26 from the VVSC web server. Logging into the server via the
27 local computer system, authorized parties download the
28 single, authenticated electronic document using the
password provided from the VVSC.

Turning now descriptively to the drawings, in which similar reference characters denote similar elements throughout the several views, the attached figures illustrate a method of identity and signature and document authentication, the process of which is comprised of the following steps:

(i) A customer tenders a request to the process center (hereinafter referred to as the Video Verification Service Center) (See Figure 1-Request for Services) for a real time, live stream video conference service as contemplated herein. The customer's request may be tendered in any viable medium, including but not limited to, electronic mail; the internet; video conference; telephone; or other means of communication to the process unit.

(ii) The Video Verification Service Center (VVSC) is an independent location and includes affiliate locations that offers real-time, live stream signature, identity authentication services and document creation and authentication services. A customer may request a variety of verification requests, including, but not limited to: signature verification to execute contractual agreements, the creation of personal identity documents such as a drivers license or passport; notarization services; and biometric verification requests.

(iii) The VVSC processes the customer's particular request. VVSC will determine the services requested and the

1 parties to the transaction. (See Figure 2.) As a
2 priori, VVSC determine:

3
4 i. Whether the parties to the transaction have the
5 necessary resources to utilize the invention.
6 The distinction is illustrated in the drawings
7 as "in-house" or "outcall". (Outcall shall
8 presume the customer requires the necessary

9 resources to facilitate a real time, live stream
10 conference or requires the technical skills of a
11 VVSC representative. In-house presumes that the
12 customer shall come to a VVSC for services);

13
14 ii. If not, whether a representative shall bring
15 the necessary resources to utilize the
16 invention to the location of the respective
17 parties, such as the home or the office; and

18 iii. If not, direct the parties to the nearest VVSC.

19
20 (iv) VVSC will establish the time and date and locations
21 for the real time, live stream videoconference
22 between the customer and all pertinent parties.

23
24 (v) The time and date will be established by a
25 reservation system which may be manual or electronic
26 or by other means of confirmation. All parties will
27 receive a confirmation prior to the live stream
28 videoconference via electronic mail or other forms of
 messaging, such as mail or telephone.

(vi) The VVSC will implement, track and manage the services requested by the customer; irrespective of the location of the customer, throughout the real-time live stream video conference.

(vii) The VVSC can provide one or all of the following services:

- i. Electronic document creation;

- ii. Electronic document authentication through a variety of methods, including but not limited to, electronic notarization utilizing an electronic notary device, digital notarization utilizing a live notary that travels to the Client's location, an electronic signature, biometric data input or a digital certificate;

- iii. Creating and authenticating electronic signatures using biometric information or digital certificates, or other electronic data;

- iv. Electronic notarization of electronic documents;

- v. Electronic document storage and management;

- vi. Identity document or identity card creation, such as a drivers license or passport-requires and interface w/ regulatory body; or

- vii. The capture and encoding of biometric data into

1 card and document format.
2
3

4 (viii) The VVSC will facilitate all transactions and
5 coordinate the involvement of outside parties and agencies
6 if necessary. The following third party entities may be
involved:

7 i. A traveling notary public to authenticate
8 documents;

9
10 ii. A traveling VVSC representative that will
11 bring a portable, real time, live stream
12 video conference system to the customer's
13 location, and all necessary appendages
14 thereto for the services contemplated
15 therein; or

16 iii. Government agencies or other regulatory
17 bodies that utilize the present invention as
18 a method to issue identity based documents
19 or cards.

20
21 (ix) The VVSC initiates the transaction, manages the
22 transaction cycle and concludes the transaction. VVSC may
23 archive the electronic document and information created
24 therein by the use of the present invention, at the request
25 of the parties to the transaction.

26 (x) The present invention has unlimited applications: it
27 serves to facilitate any transaction whereby the capture

1 and authentication of an identity, a signature, or a
2 document is required, albeit the parties to the transaction
3 are geographically dispersed. The invention envisions the
4 following variations of use:

- 5 i. The present invention may be used to secure a
6 pledge of oath.
- 7
- 8 ii. The present invention may be used to create,
9 process and authenticate a government issued
10 document, such as a driver's license or passport.
- 11
- 12 iii. The present invention may be used to route and
13 facilitate the exchange of expert or professional
14 services world-wide.
- 15
- 16 iv. The present invention may be used to create
17 documents that require the capture of an image
18 (i.e., one's photograph), a signature, and other
19 personal data, including but not limited to, bio-
metric data.
- 20
- 21 v. The present invention may be licensed to intranet
22 environments for industry specific applications,
23 such as banking, real estate, legal and
24 governmental operations.

25 The present invention is an integrated system that utilizes
26 some or all of the components as listed and described below,
27 depending upon the transaction request. The invention operates

1 on a multi-faceted level as described below and as depicted
2 in the following figures. To these ends, the present invention
3 is comprised of the following components:

- 4 (i) a multi-point and multi-media video conference
5 system (including fixed and portable structures);
- 6 (ii) an electronic signature capture device;
- 7 (iii) the means to authenticate the electronic signature
8 input by way of the electronic signature capture
9 device;
- 10 (iv) a device to create electronic documents;
- 11 (v) the means to authenticate electronic documents;
- 12 (vi) an electronic document repository;
- 13 (vii) a device to create a digital certificate;
- 14 (viii) the means to authenticate a digital certificate;
- 15 (ix) a device to create an electronic time and date
16 stamp;
- 17 (x) the means to authenticate an electronic time and
18 date stamp;
- 19 (xi) a device to create an electronic notary seal
20 (detailed in USPTO patent-pending application,
21 identified as Customer 021907);
- 22 (xii) the means to authenticate an electronic notary seal
23 (detailed in USPTO patent-pending application,
24 identified as Customer 021907);

- (xiii) a device or devices to capture biometric data, such as a fingerprint, photographic image and the like;
- (xiv) the means to authenticate biometric data, such as a fingerprint, photographic image and the like;
- (xv) a device to fuse the electronic data input with an electronic document;
- (xvi) the means to authenticate an electronic document that has electronic data fused to it; and
- (xvii) such other applications and or devices which are necessary to facilitate the function of the aforementioned components whether individually or in conjunction with one another.

OPERATION OF THE INVENTIVE DEVICE

1. MULTI-POINT, MULTI-MEDIA VIDEO CONFERENCE SYSTEM

As a priori, a video-conference or video communicating system will be necessary for the method of the present invention. The video-conference system of the present invention will utilize, including but not limited to, a multi-point, multi-media video-conference or video-communication system, a video-conference server, and a video-conference administration server that will simultaneously deliver video and voice information along with various types of electronic and material data necessary to verify personal identity, signatures and

1 documents. The method of the present invention will be
2 capable of delivering media in various formats, including
3 but not limited to, video clips, audio, text, and graphics.

4
5 The video-conference system of the present invention will
6 utilize the various structures and technology of the prior
7 art as referenced above, and other existing video
8 conference systems, including but not limited to, hand-held
9 devices, portable devices, telephonic devices, cellular
devices, and satellite devices.

10

11 **2. ELECTRONIC SIGNATURE CAPTURE DEVICE**

12 An electronic signature capture device will be necessary
13 for the method of the present invention. The function of
14 the electronic signature capture device will be to capture
15 the electronic signatures of the parties to the transaction
16 and transmit this data as necessary. The electronic
17 signature capture device will be capable of assigning
18 digital code and or graphic images as a means of signature
19 authentication. The graphical representation depicts the
actual hand-written signature of the signatory.
20 Additionally, the electronic capture device may be used to
21 input an electronic notary seal.

22

23 **3. DIGITAL CERTIFICATE**

24 A digital certificate will be necessary for the method of
the present invention. The function of the digital
25 certificate will be to authenticate either identity or
26 documents. Additionally, the VVSC may issue a digital
27 certificate as a form of personal identity verification
upon registration with the VVSC for webconference services.

1 **4. ELECTRONIC NOTARY DEVICE**

2 An electronic notary device will be necessary for the
3 method of the present invention. The function of the
4 electronic notary device will be to provide electronic
5 notarization to electronic documents. The electronic notary
6 stamp is affixed to the electronic document in one of two
7 ways: by manually imprinting the notary seal using the
8 electronic signature capture device pad and the
9 conventional notary stamp, or, alternatively, by utilizing
10 an electronic device that is encrypted with the equivalent
11 of the notary's stamp in the form of source code which is
12 affixed to the electronic document. The present invention
13 will electronically affix the electronic notary seal to
14 verify either a signature that is in a graphical format
15 (using an electronic signature capture device) or an
16 electronic format (using a digital certificate).

17 **5. BIOMETRIC DATA CAPTURE DEVICE**

18 A system to capture and process bio-metric data, including
19 but not limited to, a signature, a fingerprint, a
20 handprint, a voice print, a photograph, and retina
21 information, will be necessary for the method of the
22 present invention. The function of the biometric input
23 system will be to affix personal characteristics as
24 identified herein in the form of source code to an
25 electronic document or identification card as a means of
26 authentication.

27 **6. ENCRYPTION CODE**

28 An encryption system will be necessary for the method of
the present invention. The function of the encryption

1 system will be to authenticate and secure the electronic
2 document or identification card that is created by the
3 present invention.

4

5 **7. ELECTRONIC DOCUMENT REPOSITORY**

6 An electronic document repository will be necessary for the
7 method of the present invention. The function of the
8 electronic document repository will be to create, transmit,
9 manage and store electronic documents that are created or
authenticated by the present invention.

10

11 **8. HOST COMPUTER SYSTEM**

12 A processing center comprised of a main, regional and local
13 servers will be necessary for the method of the present
14 invention. The processing center will track incoming and
15 outgoing electronic messages; track customer accounts and
16 identities; archive all relevant information for future use
17 and/or reference; and disseminate the foregoing data to
18 regional/local servers and clients as necessary. The main
19 server shall structurally serve to store all of the
20 information generated by the invention and its related
21 processes, systems, and methods. The interconnections
22 between the servers include any and all networks and/or
23 systems or applications that facilitate the use of the
24 present invention, and any and all infrastructure necessary
25 to facilitate authentication utilizing the present
26 invention. The processing centers will serve as physical
27 structures that facilitate requests or route them to
independent affiliates with the resources to conclude the
transaction requested.

All of the components of the present invention serve to work as an integrated whole; however, they are not necessarily utilized all at once. The relationship of the components is dependent on the transaction contemplated. Nonetheless, all of the invention's components will serve to interface with the real time, live stream videoconference transaction. That is, the processes and functions of each component will be integrated into the videoconference process for a relatively simultaneous transaction. Said interface will be in the form of permanent and portable devices that are compatible with the videoconference system being utilized. The invention will also employ any software and hardware applications as necessary to make the invention function as an integrated whole.

The prior art fails to provide an integrated method of simultaneously accomplishing multiple tasks as depicted above. The present invention is able to enjoin and authenticate several transactions in a single process. It is also applicable to any transaction where one's identity, signature or a document requires authentication.

DEFINITIONS

Given the possible breadth of the present invention's potential, it is to be understood that the following terms as used anywhere in the application herein shall be construed to have the following meanings:

1 **Transaction:** The term "transaction" should be given a
2 broad reading because it encompasses a vast array of
3 possible applications of the present invention. For
4 example, the present invention can authenticate
5 electronic documents that require a notary public to
6 authenticate the signature and the corresponding
7 electronic document; e-commerce documents that require
8 that the identity of a party be verified; signature
9 verification, document authentication; documents that
10 must be signed by the parties simultaneously to take
11 effect, or identification cards and documents that
12 require identity authentication. Likewise, the present
13 invention may be utilized in industry specific
14 environments, such as banking, real estate, legal and
15 governmental operations.

16 **Videoconference:** The term "videoconference" or
17 "webconference" and the various verb permeations
18 thereof shall be construed to mean a process that is
19 being conducted real time using live stream data and
20 technology. The present invention may use various
21 videoconference technology and applications thereof,
22 but all are premised on the fact that it is a real
23 time, live stream transaction.

24 **Notary public:** The term "notary public" or
25 "notarization" shall be construed to mean
26 authenticating a document using, but not limited to,
27 the following means: a live commissioned notary
28 public; another person certified to authenticate

1 documents; digital forms of notarizing documents such
2 as a digital certificate and the technology identified
3 in United States pending patent application, herein
4 identified as Customer 021907.

5 **Electronic Document:** The term "electronic document"
6 shall be construed to mean any data that is
7 constructed and compiled by use of the present
8 invention; including but not limited to, digital or
9 electronic documents in various mediums, whether
10 tangible or not (i.e. source code, compact disc,
11 floppy diskette, etc.); documents encompassing an
12 array of transactions and documents comprised of
13 tracking, managing and storing information created by
use of the invention.

14 **Electronic Signature:** The term "electronic signature"
15 shall be construed to mean any form of electronic
16 signature, including but not limited to, a graphical,
17 hand written representation using a signature capture
18 device, a digital certificate, a password, or such
19 other electronic data input.

20 **Biometric Data:** The term "biometric data" shall be
21 construed to mean any form of biometric information
22 including but not limited to: a fingerprint, a
23 handprint, a voice print, a retina print, an
24 electronic signature, a manual signature, sources of
25 DNA reducible to electronic code and personal
26 information in the form of electronic input: such as
27 height, weight, color, shape and size.
28

1 **Electronic Data:** The term "electronic data" shall be
2 construed to mean any form of electronic data input,
3 including but not limited to: an electronic signature,
4 biometric data, source code, passwords, graphics,
5 audio and other such electronic data.

6
7 As to a further discussion of the manner of usage and
8 operation of the present invention, the same should be
9 apparent from the above description. Accordingly, no
10 further discussion relating to the manner of usage and
11 operation will be provided.

12
13 With respect to the above description then, it is to be
14 realized that the optimum dimensional relationships for the
15 parts of the invention, to include variations in size,
16 materials, shape, form, function and manner of operation,
17 assembly and use, are deemed readily apparent and obvious
18 to one skilled in the art, and all equivalent relationships
19 to those illustrated in the drawings and described in the
20 specification are intended to be encompassed by the present
invention.

21
22 Therefore, the foregoing is considered as illustrative only
23 of the principles of the invention. Further, since
24 numerous modifications and changes will readily occur to
those skilled in the art, it is not desired to limit the
25 invention to the exact construction and operation shown and
described, and accordingly, all suitable modifications and
26 equivalents may be resorted to, falling within the scope of
27 the invention.